CW#100&HW#100: Arc length & Sector Area

Geometry  
Due: Friday, March 18th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

FAILURE TO WRITE IN COMPELTE SENTENCES OR SHOW ALL WORK WILL RESULT IN LASALLE

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| Objective | YWBAT find the arc length of a sector. | |
| 1. Find the measure of arc AB.   ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.42.52%20PM | | 1. Find the measure of the arc shown below.  ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.46.02%20PM |
| 1. Find the measure of the arc shown below. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.46.05%20PM | | 1. Find the measure of arc EF.  ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.42.55%20PM |
| 1. Find the measure of arc GH.  ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.42.58%20PM | | 1. Find the measure of the arc shown below. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.46.08%20PM |
| 1. Find the measure of the arc shown below. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.49.29%20PM | | 1. Find the measure of the arc shown below. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.49.32%20PM |
| 1. Find the measure of the arc shown below. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.49.35%20PM | | 1. Find the measure of the arc shown below. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.49.37%20PM |

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| Objective | YWBAT find the area of a sector | |
| Directions: Find the area of each sector. | | |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.17%20PM | | 12. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.12%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.09%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.07%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.03%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.00%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.51.57%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.51.54%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.51.51%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.51.48%20PM |

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| Objective | YWBAT find the perimeter of a sector. | |
| Directions: Find the Perimeter of each sector | | |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.32%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.29%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.26%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.24%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.18%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.16%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.12%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.09%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.06%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.00%20PM |

Application Problems

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| 1. INSCRIBED SQUARE A square with side length 6 units is inscribed in a circle. Draw a sketch to represent the problem. Find the circumference of the circle. | 1. PIZZA! PIZZA! You stop for lunch at a local pizza shop where pizza is cut into 8 slices. Would your hunger be satisfied with one slice from a 16-in pizza or two slices from a 12-inch pizza (disregarding thickness)? Explain your answer using mathematical evidence. |
| 1. A Cathedral window is built in the shape of a semicircle. If the window is to contain three stained glass sections of equal size, what is the area of each stained glass section?   ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%202.41.39%20PM | 1. TREES A group of students want to find the diameter of a trunk of a young sequoia tree. The students wrap a rope around the tree trunk, then measure the length of rope needed to wrap one time around the trunk. This length is 21 feet. *Explain* how they can use this length to estimate the diameter of the tree trunk. |
| 1. SHORT RESPONSE It takes about ¼ cup of dough to make a tortilla with a 6-inch diameter. How much dough does it take to make a tortilla with a 12-inch diameter? *Explain* your reasoning. | 1. WRITING Suppose you double the angle measure given for the sector of a circle. Will the area of the sector also be doubled? *Explain* in at least 1 sentence. |